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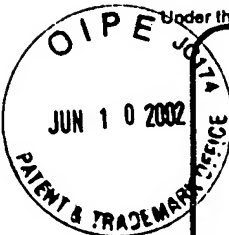
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PTO/SB/08A (10-96)

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	10/036,992
Filing Date	DECEMBER 29, 2001
First Named Inventor	SAFWAT, Sh rif
Group Art Unit	3643
Examiner Name	Kurt Rowan
Attorney Docket Number	2194DIV1

Sheet **1** of **5**

U.S. PATENT DOCUMENTS

Examiner Initials [*]	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		1,026,544		YAMAMOTO, Takejiro	05/14/12	
		1,552,269		BROCKER, Walter C.	09/01/25	
		1,897,224		ANDREWS, Phillip R.	08/31/31	
		2,162,115		PAULS, Peter T.	06/13/39	
		2,511,057		GUTHRIE L., et.al.	06/13/50	
		2,590,586		THOMPSON, W.E. et.al.	03/25/52	
		2,792,617		HALLER, John, W.E.	05/21/57	
		2,816,386		HARRIS, V.L. et.al.	12/17/57	
		2,823,576		NEEDHAM, E.R., et.al.	02/18/58	
		2,999,413		MOMOI, Kazuo	09/12/61	
		3,041,915		RYFFEL, K., et.al.	07/03/62	
		3,102,357		LUKETA, Frank J.	09/03/63	
		3,129,632		STARR, Robert J.	04/21/64	
		3,131,501		LUKETA, Frank J.	05/05/64	
		3,153,297		GRABOWSKY, M.G.	10/20/64	
		3,308,567		LUKETA, Frank J.	03/14/67	
		3,369,317		BROWNELL, N. C.	02/20/68	
		3,606,815		YAMASHITA S., et.al.	09/21/71	
		4,356,654		TREKEL, Rainer, et. al.	11/02/82	
		4,457,959		DORNHEIM, G., et. al.	07/03/84	

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FOREIGN PATENT DOCUMENTS

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
		DE	3543253	A1		06/1987		
		FR	2521065			08/1983		
		JP	57-13660			03/1982		
		JP	59-71630			04/1984		
		JP	60-30630			02/1985		
		JP	60-39782			03/1982		
		JP	60-88160			05/1985		
		JP	60-139860			07/1985		
		JP	61-386			08/1986		

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First Named Inventor	SAFWAT, S.
Group Art Unit	3643
Examiner Name	Kurt Rowan
Attorney Docket Number	2194DIV1

Sheet 2 of 5

U.S. PATENT DOCUMENTS

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet	3	of	5	Application Number	10/036,992
				Filing Date	DECEMBER 29, 2001
				First Named Inventor	SAFWAT, Sherif
				Group Art Unit	3643
				Examiner Name	Kurt Rowan
				Attorney Docket Number	2194DIV1

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Batill, S.M., et al., "An Experimental Investigation of the Flow Field Around Yawed Stranded Cables"	
		Naval Coastal Systems Center, Panama City, Florida (1989)	
		Batill, S.M., et al., "Flow Field Studies on Yawed, Stranded Cables," in Flow Visualization, V, R. Reznicek ed.,	
		Hemisphere Publishing Corp., pp.391-396 (1990)	
		Batill, S.M., et al., "Detailed Near Surface Flow ABOUT Yawed, Stranded Cables", Coastal systems Station, Dehlgren Division,	
		Naval Surface Warfare Center, Panama City, Florida (1992)	
		Breidenthal, R., Phus. Fluids, Vol. 23, No. 10, p. 1931 (1980)	
		Cermak, J.E., "Aerodynamics of Buildings," Annual review of Mechanics 8 p. 99 (1976)	
		Diggs, Jesse S., "Hydrodynamic Characterization of Various Towed Array Towcables," Towed systems Branch,	
		Naval Ship Research and Development Center, Bethesdda, Maryland (1974).	
		Endeco, Inc., "Haired Faired Cable," Endeco Towed Systems (date unknown)	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet **4** of **5**

Complete if Known

Application Number	10/036,992
Filing Date	DECEMBER 29, 2001
First Named Inventor	SAFWAT, Sherif
Group Art Unit	3643
Examiner Name	Kurt Rowan
Attorney Docket Number	2194DIV1

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

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		Flugwiss, Z., Weltraumforsch 14, p. 40 (date unknown)	
		Garner, John "How to Make and Set Nets or The Technology of Netting," Fishing News Books Limited, 1962	
		Hoerner, S.F., "Fluid-Dynamic Drag," published by author, pp. 3-2 and 4-4 (1965).	
		Hoerner, S.F., "III-Pressure Drag," published by author, pp. 3-7,3-9, 3-11 and 3-27 (1965).	
		Hoerner, S.F., "IV-Structures," published by author, p.4-5 (1965).	
		Hunt, J.C.R., "Industrial and Environmental Fluid Mechanics," Annual Review of Fluid Mechanics 23, pp. 10-12 (1991).	
		Klust, Gerhard, "Netting Materials for Fishing Gear", published by Food and Agriculture Organization of the United Nations, 1973	
		"Knuckleballs," Scientific American, p. 22 (1987)	
		Lisoski graph, Fig. 7, Experimental Lift and Drag Histories for Bluff Plate, p. 95 (1993).	
		Mehta, Rabindra D., "Aerodynamics of Sports Balls," Ann. Rev. Fluid Mech. 17:151-189 (1985).	
		Nebres, Jose V., "Flow Around Yawed Stranded Cables," Master's Thesis, University of Norte Dame, Indiana (1989).	

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Sheet **5** of **5**

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First Named Inventor	SAFWAT, Sh rif
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		Nebres, Jose V., "Wake Similarity and Vortex Formation for Two-Dimensional Bluff Bodies," Doctoral Dissertation, University of Norte Dame, Indiana (1992).	
		Oceanographic Ribbon Fairing Cable, The rochester Corporation, Cat-82 (date unknown).	
		Roshko, A., "Perspectives on Bluff Body Aerodynamics," Second International Colloquium on Bluff Body Aerodynamics and Application, Melbourne, 7-10, pp. 81 (1992).	
		"On the Persistence of Transition in the Near-Wake," pp. 607 and 609. Problems of Hydrodynamics and Continuum Mechanics, Soc. Industrial and Appl. Math., Philadelphia (1969).	
		"Examples of Spectrum products, specific projects and end-users," Spectrum Ocean Systems Limited, Peterborough, Ontario (date unknown).	
		"Fairing and Anti-Stacking Ring Assemblies for Tow Cables," Spectrum Ocean Systems Limited, Peterborough, Ontario (date unknown).	
		Williamson, C.H.K., "Oblique and Parallel Modes of Vortex Shedding in the Wake of a Circular Cylinder at Low Reynolds Numbers," Journal of Fluid Mechanics 206:595 and 597, 1989.	
		The Zippertubing Co. product data sheets and bulletins for DVH-20 AND DVH-40 cable fairings, specifications, and installation (date unknown).	

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